

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**  
 (Includes Reference to PCT International Applications)

 ATTORNEY'S DOCKET NUMBER  
**LUD 5298**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINE**
**THREONINE KINASE DOMAINS AND THEIR USE**

the specification of which (check only one item below):

☐ is attached hereto.

☒ was filed as United States application

 Serial No. 08/436,265

 on May 16, 1995

and was amended

on \_\_\_\_\_ (if applicable).

☒ was filed as PCT international application

 Number PCT/GB93/02367

 on November 17, 1993

and was amended under PCT Article 19

on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
GB	9224057.1	17 November 1992	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9304677.9	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9304680.3	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9311047.6	28 May 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9313763.6	2 July 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

PFI 1391 REV 10 93

 GB  
 GB

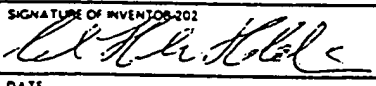
 9136099.2  
 9321344.5

Page 1 of 2

 3 August 1993  
 15 October 1993

 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office  
 X Yes  
 (January 1991)  
 X Yes

Combined Declaration For Patent Application and Power of Attorney (Continued) <small>(Includes Reference to PCT International Applications)</small>				ATTORNEY'S DOCKET NUMBER <b>LUD 5298</b>	
<p>I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:</p>					
<b>PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:</b>					
U.S. APPLICATIONS			STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			
PCT/GB93/02367	Nov. 17, 1993				
<p><b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number) <b>Peter F. Felpe (20,297); John E. Lynch (20,940); Alfred H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajolloff</b></p>					
<p>* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894). *FELPE &amp; LYNCH 805 Third Avenue, New York, New York 10022</p>			<p>Direct Telephone Calls to: (name and telephone number)  (212) 688-9200</p>		
201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY		
202	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY		
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY		
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.</p>					
SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
DATE		DATE		DATE	
		October 16, 1995		October 16, 1995	

Combined Declaration For Patent Application and Power of Attorney (Continued) (Includes Reference to PCT International Applications)				ATTORNEY'S DOCKET NUMBER LUD 5298	
<p>I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:</p>					
<p><b>PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:</b></p>					
U.S. APPLICATIONS			STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			
PCT/GB93/02367	Nov. 17, 1993		X		
<p><b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number) <b>Peter F. Felfe (20,297); John E. Lynch (20,940); Alfred H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajolloff</b></p>					
<p>* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894). *FELFE &amp; LYNCH 805 Third Avenue, New York, New York 10022</p>			<p>Direct Telephone Calls to: (name and telephone number)  (212) 688-9200</p>		
201	FULL NAME OF INVENTOR	FAMILY NAME Yamashita	FIRST GIVEN NAME Hidetoshi	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstavagen 33A, S-752 63, Uppsala		STATE & ZIP CODE/COUNTRY Sweden	
202	FULL NAME OF INVENTOR	FAMILY NAME Heldin	FIRST GIVEN NAME Carl-Henrik	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Hesselmans vag 35 S-752 63, Uppsala		STATE & ZIP CODE/COUNTRY Sweden	
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY	
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SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202 		SIGNATURE OF INVENTOR 203	
DATE		DATE October 16, 1995		DATE	

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(Includes Reference to PCT International Applications)ATTORNEY'S DOCKET NUMBER  
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☐ is attached hereto.☒ was filed as United States applicationSerial No. 08/436,265on May 16, 1995

and was amended

on \_\_\_\_\_ (if applicable).

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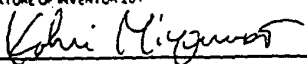
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COUNTRY IN PCT APPLICATION PCT 1	APPLICATION NUMBER	DATE OF FILING DAY, MONTH, YEAR	PRIORITY CLAIMED UNDER 35 USC 119
GB	9224057.1	17 November 1992	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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GB	9304680.3	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9311047.6	28 May 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9313763.6	2 July 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

PT 112 (1991) REV. 10/83

GB  
GB9136099.2  
9321344.53 August 1993  
15 October 1993U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office  
X Yes  
(January 1991)  
X Yes

<b>Combined Declaration for Patent Application and Power of Attorney (Continued)</b> <small>(Includes Reference to PCT International Applications)</small>				<b>ATTORNEY'S DOCKET NUMBER</b> TUD 5298	
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U.S. APPLICATIONS			STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
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PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (If any)			
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201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME		SECOND GIVEN NAME
		Miyazono	Kohei		
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
		Uppsala	Sweden		Sweden
202	POST OFFICE ADDRESS	POST OFFICE ADDRESS		CITY	
		Flogstavagen 63D, S-		752 63, Uppsala	
		FAMILY NAME		FIRST GIVEN NAME	
		ten Dijke		Peter	
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME		SECOND GIVEN NAME
		Franzen	Petra		
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
		Uppsala	Sweden		Sweden
204	POST OFFICE ADDRESS	POST OFFICE ADDRESS		CITY	
		Lindsbergsgatan 15b		S-752 40, Uppsala	
		FAMILY NAME		FIRST GIVEN NAME	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.					
SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
					
DATE		DATE		DATE	
Oct. 16, 1995					

Combined Declaration For Patent Application and Power of Attorney (Continued) <small>(Includes Reference to PCT International Applications)</small>					ATTORNEY'S DOCKET NUMBER <b>LUD 5298</b>
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U.S. APPLICATIONS				STATUS (Check one)	
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
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PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED <small>if any</small>			
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201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME		SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	CITY		STATE & ZIP CODE/COUNTRY	
		Yamashita	Hidetoshi		
		Uppsala	Sweden		Sweden
		Flogstavagen 33A, S-752 63, Uppsala		Sweden	
202	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME		SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	CITY		STATE & ZIP CODE/COUNTRY	
		Heldin	Carl-Henrik		
		Uppsala	Sweden		Sweden
		Hesselmans vag 35		S-752 63, Uppsala	
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME		SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	CITY		STATE & ZIP CODE/COUNTRY	
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SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
Hidetoshi Yamashita					
DATE		DATE		DATE	
Oct. 16, 1995					



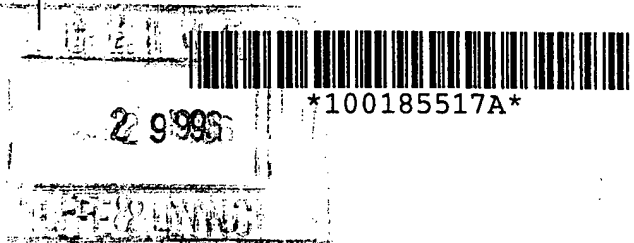
**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JULY 20, 1996

PTAS

FELFE & LYNCH  
PATRICIA A. PASQUALINI, ESQ.  
805 THIRD AVENUE  
NEW YORK, NY 10022



**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/1995

REEL/FRAME: 7914/0131

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MIYAZONO, KOHEI

DOC DATE: 05/24/1995

ASSIGNOR:

DIJKE, PETER TEN

DOC DATE: 05/24/1995

ASSIGNOR:

FRANZEN, PETRA

DOC DATE: 05/24/1995

ASSIGNOR:

YAMASHITA, HIDETOSHI

DOC DATE: 05/24/1995

ASSIGNOR:

HELDIN, CARL-HENRIK

DOC DATE: 05/24/1995

ASSIGNEE:

LUDWIG INSTITUTE FOR CANCER RESEARCH  
1345 AVENUE OF THE AMERICAS  
NEW YORK, NEW YORK 10105

7914/0131 PAGE 2

SERIAL NUMBER: 08436265  
PATENT NUMBER:

FILING DATE: 10/30/1995  
ISSUE DATE:

ANNIE HARRELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



05-03-1996

U.S. Department of Commerce

Patent and Trademark Office



100185517

To the Honorable Commissioner of Patents and

original documents or copy thereof.

## 1. Name of conveying party(ies):

Kohei Miyazono  
Peter ten Dijke  
Petra Franzen  
Hidetoshi Yamashita  
Carl-Henrik Heldin

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: May 24, 1995

## 2. Name and address of receiving party(ies)

Name: Ludwig Institute for Cancer Research

Internal Address: \_\_\_\_\_

Street Address: 1345 Avenue of the AmericasCity: New York State: NY Zip: 10105Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No. (s)

08/436,265

B. Patent No. (s)

75888 U.S. PTO



05/01/96

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patricia A. Pasqualini, Esq.Internal Address: FELFE & LYNCHStreet Address: 805 Third AvenueCity: New York State: NY Zip: 100226. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) ..... \$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

06-0530

(Attach duplicate of this page if paying by deposit acct.)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patricia A. Pasqualini  
Name of Person Signing

Patricia A. Pasqualini  
Signature

July 14, 1995  
Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

ASSIGNMENT

Whereas the undersigned [hereinafter (collectively) "ASSIGNOR"] have invented certain new and useful improvements in ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINE THREONINE KINASE DOMAINS AND THEIR USE for which an application for United States Letters Patent was executed concurrently herewith.

Whereas Ludwig Institute for Cancer Research  
1345 Avenue of the Americas  
New York, New York 10105

a Swiss ,not-for-profit corporation (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is hereby acknowledged, and other good and valuable consideration, the said ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE, as the assignee of the entire right, title, and interest in and to the same, for the sole use and for the use of its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Witness, the hand and seal of the ASSIGNOR on the date(s) indicated.

Date(s)

Signature(s)

May 24, 1995Kohji Miyazono

Kohji Miyazono

May 24, 1995Peter ten Dijke

Peter ten Dijke

May 24, 1995Petra Franzen

Petra Franzen

May 29, 1995Hidetoshi Yamashita

Hidetoshi Yamashita

May 24, 1995Carl-Henrik Heldin

Carl-Henrik Heldin

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New York, N.Y. 10022  
Tel. No. 212-688-9200